

PVRC JULY 98 NEWSLETTER

PVRC CALENDAR

Weekly	Wed	BWI Regional weekly breakfast. Wednesdays 7:30 am, Basil's Deli, Elkridge Landing Rd near BWI
Jul 10	Fri	South West Virginia (PVRC/SWVA), Western Sizzler, Orange Ave, Roanoke, VA at 6:00 pm.
Jul 14	Tue	Northwest meeting, Legends Restaurant, Frederick, MD 8pm
Jul 18	Tue	Tidewater Colony meeting with VA-DXCC, D&M Seafood, Newton & Va Beach Rds.
Jul 18	Sat	PVRC/NC meeting at N4CW, 10808 Marthas Way, Raliegh. See below.
Jul 25	Sat	Open house at W4MYA, Goochland, VA See below.
Summer		Central meetings are not held during June, July, and
August.		
Aug 15	Sat	Fowlfest at W3YOZ Park starting at noon. Same as last year. Directions in the August Newsletter.
Sep 12	Sat	Joint PVRC/FRC meeting at 1:00 pm at N3AD, RD1, Morgantown, PA. Directions in a later issue.

PVRC/NC JULY MEETING ON 18TH AT N4CW

The regular PVRC-NC meeting scheduled for the first Thursday of July is changed to be at N4CW's QTH on July 18th. Anybody planning to attend is urged to notify N4CW in advance so directions to that location can be provided. The meeting will begin at noon on July 18--lunch and refreshments (beer and soda) will be provided by the host. There is no mega station to demo nor a complex antenna farm...just a laid-back get-together of PVRC contest aficionados. You're welcome to attend. I'll be sending directions to all that I get a response from. As for scheduling, it's always something....that weekend it's a RTTY contest. C'mon down...and let me know if you plan to.

Database info: Bert Michard, N4CW, 10808 Marthas Way, Raliegh, NC 27614-9275, 919-676-7388, [\[email protected\]](#)

OPEN HOUSE AT W4MYA ON SATURDAY, 25 JULY 1997

Starting noonish, Lasting until the last person leaves!

Had a good turnout last year. Folks from MD, Northern VA, and Tidewater areas showed up. I hope some of the other areas will be represented also.

The address is 5303 St Paul's Church Rd, Goochland, VA. Talk in will be on the 145.430 machine and 146.58 simplex. Phone number is 804-457-9011.

A.C. Frame (WA4DAI) has graciously agreed to cook for the folks this year! Lots of BBQ!! , potato salad etc. There will be beer, soft drinks, water

and munchies available. Serving will be +/- 1PM. Will have the tarps up for shelter same as last year. Hoping for 50+. CU then, MYA

Directions from the North: I-95 South to I-295 West toward I-64 West. Get on I-64 West to the 168 mile marker. This is the Oilville Exit. (There is a rest area just before this exit; you are still 1/2 hour away). There is only one exit, At the top of the hill turn left (takes you back over I-64 and is called Oilville Rd.). Oilville Rd "T"'s at Rt 250. Turn right on Rt 250. Go to the first hard surface road you come to on the left which is Fairgrounds Rd, (Signs say Goochland Courthouse) Take a left on Fairgrounds Rd. It will "T" with RT 522. Take a left on RT 522. Rt 522 will "T" into Rt 6. Take a right on Rt 6. Go approximately 10 miles, which will bring you to the intersection of Rt 6 and Rt 45. Take a left on Rt 45. Go 2 miles on Rt 45 till you come to Rt 625. Turn Left onto Rt 625 and go 3/10 of a mile I am on the right. Will try to have some signs up at least at Rt 6, Rt 625 and my driveway.

Directions from the South. I normally come up Rt 29 toward Danville, get on Rt 58, then Rt 58 to Rt 360 East to Keysville. Take Rt 15 North out of Keysville to Rt 45 North out of Farmville. Stay on Rt 45 thru Cartersville. When you cross the James River go 4 miles. Rt 625 is on the right. Go 3/10 mile to my driveway.

Directions from the West. On I-64 go to the Hadensville, VA exit. There is only one exit. Take a right onto Rt 623. This will "T" into Rt 250. Turn right and then left onto Rt. 623. Rt 623 will "Y" into Rt 606. Follow Rt 606 (Fife Rd) until it "T"s with Rt 6. Turn right on Rt 6 then Left on Rt 45. Go two miles to Rt 625. Turn left onto Rt 625. 3/10 mile on right will be my driveway.

W3LPL OPEN HOUSE MINUTES, JUNE 20TH, by Rich Boyd, KE3Q, Secretary

The annual open house at W3LPL was held on June 20th. The attendance was:

AA3KX, AA3KY, AA3LE, AI3M, K1DQV, K1EFI, K1HTV, K1MU, K1SE, K2AV, K2YWE, K3ANS, K3CHP, K3DI, K3IXD, K3KO, K3KY, K3LP, K3MM, K3MQH, K3RV, K3SA, K3SX, K3TM, K3UT, K3ZO, K3ZR, K4EC, K4FJ, K4GMH, K6LEW, K7SV, K8OQL, KA3EJJ, KA3QPG, KB3BWR, KC1XX, KC3EK, KC3VO, KC4B, KD3VK, KD4BK, KE3Q, KK3Z, KM3V, KR4EL, KS4XG, KT4XS, KU3M, KW4T, N1HMG, N1KC, N3CW, N3EYB, N3FZB, N3GB, N3HSA, N3II, N3IZU, N3KTV, N3OPM, N3UMA, N3UN, N3YDT, N4CW, N4MM, N4YIM, N4ZR, N6CZG, ND3A, NF3I, NJ4F, NP3C, NV3V, VE3RM, VE3WIB, W1KYC, W2BZR, W2GG, W2YE, W3AMY, W3AZD, W3CP, W3CQH, W3EKT, W3GG, W3GN, W3GNQ, W3HVQ, W3IP, W3KN, W3LEO, W3LM, W3LPL, W3MNE, W3MR, W3NF, W3PJ, W3TMZ, W3UR, W3VP, W3XE, W3YOZ, W3ZZ, W4BA, W4PRO, W6AXX, W7FKF, W8JV, W8ZA, WA4JUK, WB3ANE, WB3AVN, WB4DNL, WD3A, WF3J, WG3R, WI2T, WR3Z, WW3W, WX3B, and WZ4A

President, K3MM, called the meeting to order at 2 PM or so. We went around giving our name and call sign. Tyler noted a meeting in NC at N4CW for July 18th, a meeting at W4MYA in July (see prior article -editor) and at W3YOZ ("Fowlfest") August 15th. Also, the joint meeting with FRC September 12, at an FRC site to be determined.

The regular "general" meeting for September will be the second Monday of the month, as usual. The September one will be at our Virginia site, Patrick Henry Library, Route 123, Vienna, Virginia, at 7:30 P.M. An informal pre-meeting dinner is held beforehand at Outback Steakhouse nearby. Presentation at the September meeting will be two radio single op techniques, presented by K3MM and N3OC.

K3DI has worked out details with the postal service for bulk mailing. W3CP reminds us he's our representative to the Foundation for Amateur Radio (F.A.R., that puts on the Gaithersburg, MD hamfest, but also runs a scholarship program and other good things), but could use another helper, since he can't attend all the meetings. N1KC has agreed to handle orders for PVRC shirts, hats, mugs, and possibly various other items. I think we have some pent-up demand...things were delayed with the logo enhancement the last year or so...he hopes to put in an order perhaps in September. Contact N1KC for info, and he'll be putting out info through the normal channels (e.g. newsletter and reflector, packet, etc.)

W3KN, an 18-year old member, son of longtime PVRCer W3MR, was awarded a thousand-dollar ARRL scholarship. Andy plans to attend Embrey-Riddle in Florida in the fall. Congratulations, Andy. You can also find Andy selling hotdogs at Baysox (AA minor league, Orioles farm system) games in Bowie, MD during the summer.

W3LEO and W3CQH noted that the Governor of Maryland has declared Field Day week "Amateur Radio Week" in the State of Maryland, apparently due to W3CQH's efforts. W3CQH displayed a nice certificate from the governor.

We noted the presence of half a dozen NC PVRCers! Thanks for making the trip, guys. As you well know, we NEED you to win! We'll try to get some guys from the northern end of PVRC-land to come down to your summer event too. And we can meet in the middle at W4MYA's. Also, a few of our PA, WV, and DE members were present.

Many PVRCers are going out for Field Day, some with the W3AO all PVRC group and many others with their local clubs, etc. We had everyone mention where they'll be for FD -- must have been 15 different groups!

The missing logs in the 10M contest controversy was discussed, K1DQV urging a strong letter to ARRL expressing our displeasure. Roger was reassured the dialogue has been engaged, with PVRC in the middle of it. N4MM, who's on the League's Board, and a longtime PVRCer, assured us it would be high on the agenda for the July board meeting. Also, longtime PVRCer K4VX is head of the Membership Services Committee and is well aware of the situation. In any case, PVRC was awarded the win in the medium category by a decent margin over two Florida groups, the Florida Contest Club (N4BP is one of them), and Florida Contest Group (K4OJ is one of them), who came in second and third. PVRC knows of 5 logs of ours that were also lost.

All were email logs, not snail mail, interestingly. It appears even if all allegedly lost logs were added; we would still have the highest point total. And, adding in our missing logs would push us over 50 logs into

the unlimited category, all along, so we would win that and one of the Florida clubs would win the medium category. So, I think PVRC is not adversely affected no matter what happens...but the Florida guys have been pretty upset. Congratulations to PVRC for another win. Getting to be a habit lately! Other recent wins, '97 Sweepstakes and the recent VHF contest. Now 10M. And we seem to have a potentially winning WPX total too. And, of course, this fall we go for the threepeat in SS! Let's get 200 logs this time!

Also on the ARRL Board agenda is the possibility of having out of area Sweepstakes scores count (e.g. K4MA in KP2 for SS, W3LPL at KH7R in SS, and other similar ones)...if the member is otherwise bona fide in every way, etc. PVRC made this suggestion.

K7SV notes the NAQP in August is a fun contest, and IARU is coming up in July too. For NAQP we can enter teams (I think it's five per team)...we could have several PVRC teams in it if there's enough interest.

We voted in a number of new members, among them W2YE, W3KIT, KK5ZX, WA4JUK, K1SE, WX3B, and NP3C. I couldn't keep up so I know I missed a few, which K3MM will have to fill in from the applications.

Meeting was adjourned. I left Frank's at about 6 PM (the affair started at noon) and there were still half a dozen hanging around in Frank's basement at that point. Had a great time.

OVER-THE-HILL LUNCH BUNCH June 18th by Ben Shaver, AA4XU

Here are the attendees at the PVRC monthly Over-The-Hill Lunch at Tom Weston's Restaurant, Annandale, VA on Wednesday June 18, 1998. The last amendment of the PVRC Bylaws makes these meetings official club meetings, at which attendance serves for contest certification credit just like the night meetings do. Attending were: K6ETM George Sinclair; W3XE, Andy Andersen; W3UJ, Henry Herman; W3GN, Lawrence Fadner; W4RV, Sam Brown; W4DM; Dale Harris; W6AXX, Howard Leake; K3ZO, Fred Laun; and AA4XU Ben Shaver.

PVRC/SWVA MEETING MINUTES, JUNE 12, 1998 by John Mitchell, K4IQ

Site: Western Sizzlin' Restaurant, Williamson Rd., Roanoke. 1800-2100

Attendees: W4YE, Buddy; K1GG, Gordon; N4GU, Mike, K3GX, Dave; K4IQ, John; WA4BKW, Bill; K4EP, (ex-KF4JFG), Phil; KU4RG, (ex. KF4LBD), Anthony.

Membership: This was KU4RG - Anthony's second meeting, and, after a spirited introduction by W4YE, he was unanimously voted into Chapter membership. Welcome Anthony!

Meeting Agenda: Since May was a busy month, and we had no meeting, everyone had a lot to catch up on. K4EP, N4GU and K4IQ related their Dayton adventures, including their bewilderment that some of their traveling companions just HAD to watch that last episode of Seinfeld. Mike also told us about the Dunestar Bandpass filters he bought. Gordon, K1GG related some background on the FAIRS group that he volunteers with, which is involved in amateur radio good will building between the US and Ukraine. John, K4IQ described the scene at the hospitality suites, which

he attended nightly with fellow PVRC'ers W3YOZ and K4VV. Attendees also really enjoyed meeting up with Ivor, GI0AIJ, who was accompanied at Dayton by Roanoke ham Jerry, K1SO, who had pictures of Ivor's antenna farm. Jerry recently visited Ivor's fantastic QTH near Belfast, and has promised to attend one of our meetings soon. N4GU has a neat web page with lots of pictures from Dayton at <http://lab.ant.ee.vt.edu>. Click on "personnel" and "Michael Barts".

Gordon, K1GG, won the Virginia QSO party with a great effort. Congratulations Gordon! K4IQ took single operator high power for Virginia section in the ARRL 160 test. N4GU shared the latest NCJournal, which had all the listings for the CW NAQSO party results. The Southwest Virginia Contest Conspiracy (all PVRC'ers) placed in the middle somewhere, and was pleased with this first effort. Buddy, W4YE was quite active in both the WPX and ROTA, where he noted that 10M was a disappointment in WPX, and that SWVA has a geographic disadvantage for ROTA, since we're beyond ground wave, but inside the skip zone, for the Capitol area stations. K4EP described his experiences working from Hatteras Island for IOTA, and mentioned he may participate in the July IARU and IOTA tests. K4IQ, N4GU, and K3GX plan modest efforts for the VHF contest this weekend, and members will be active from four different regional clubs for Field Day.

We also discussed the summer format, with at least one picnic planned for August/September, and some antenna parties. We agreed to coordinate by email to try to car pool to some of the main club activities. Several people commented that it would be good if PVRC'ers from other Chapters could make a visit to one of our meetings, and that we should extend a standing invitation for anyone traveling through the area to contact us, and we'll arrange a meeting around their travel schedule. We discussed our organization and structure, and it was agreed that K4IQ would continue to coordinate our activities, and that we didn't need additional offices at this time. We've had a great first year at SWVA, and look forward to even more growth and activity next season.

NW REGIONAL MEETING JUNE 16, 1998 by Tyler Stewart K3MM

The meeting was held at the usual QTH, Legend's in Frederick. In attendance were members: K3MM, W3EKT, K3IXD, N8II, K3SX, W8ZA, WD3A, WA3IKK, NE3H, and K3LP.

WD3A reports that the NIST group will activate K3AA for field day in 3E category. Anyone interested in operating in air-conditioned comfort should contact him! Tom also made about 150 Q's in WPX CW and did a little roving in the VHF contest with 22Q's and 7 grids!

W8ZA played in the VHF contest. Bob has new 40 and 20 meter beams in the works. He is acquiring another TS850 from W3LPL and will also operate from K3AA in FD.

K3SX, Sid, reports working 3 VK's and a ZL in the WPX contest on his 160-meter band. He also made 134Q's or about 8400 points on 6/2/and 220mhz for the VHF contest. He now has 170 countries confirmed on 160M!

WA3IKK hasn't operated FD since 1967! Comments from the MP reflector have him worried about his radio's constitution.

NE3H gave up on RITTY and has gone back to running the Hal P38.

N8II did 130/18 in the PVRC Reunion and notes working DL8TWA running QRP and a vertical on 40 meters! In the VHF contest, he worked VP5, 3 CO's, and 2 XE's on 6 meters. Total 188/78 for 13,160 points. He did about 100 Q's in WPX CW.

K3IXD went roving with W3EKT/R in the VHF contest. He comments that bad WX seemed to cut into the NE corridor activity.

W3EKT says K1TR reported 70-mph winds at their QTH! For their roving, they set up near Lancaster, dodging "road apples" all the way. Ed won a Teletec amp at Dayton and selected one to run on 432 to match his other two. Score was 700+Q's for 145k points. His goal for next year is 1000 QSO's!

K3MM reports 4.3 million in the WPX CW contest. He operated 2 meters at K3MQH as usual with about 775 Q's and 68 grids, being absolutely shocked when W5KFT called in from Texas during a very brief opening on that band! He worked 3 others before it dropped out just a few minutes later. He's still trying to get some work done on the new tower, and has a new CC XM240 to put on top.

WA3IKK and W3EKT made monetary contributions to the club at the meeting. Meeting adjourned.

NOTES FROM THE RAPPAHANNOCK GROUP by Larry Schimelpfenig, K7SV

We just put a TH6 at the top of K4GMH's 120ft Rohn 25 stick. He's up real high in Stafford County with an excellent shot in every direction. At NJ4F we completed a 5 over 5 over 5 stack on ten meters, and that should complete antenna work there. Except for maybe a temporary 60 ft tower for a TH6 and a rotatable 40 meter dipole for the multiplier station, and some more separate feed lines to the big tower, and maybe some better wires on 80!

FREDERICK HAMFEST MEETING - June 21, 1998 by Tyler Stewart K3MM

An impromptu meeting was held at the Frederick hamfest on Sunday morning. This was W3IO, Burts second meeting, making him eligible for membership. Also in attendance were members: K3MM, KA4RRU, K1DQV, K5OF, K3SA, K3UT, WI2T, KA3QPG, W3CQH, K3SKE, and W3AZD.

SHORT NOTES FROM THE EDITOR

The paper edition of the Newsletter is now sent by bulk mail. This reduces the postage rate AND allows us to mail 3.3087 ounces instead of one ounce at the basic rate. The flip side is that we need your exact address including your correct current zip code. If the PO has changed your zip code, please let W2GG know. Your Newsletter will not be

forwarded but the Postal Service will feedback the corrected information to me for a small fee. Bob, W2GG maintains the PVRC database and provides me with a current database file every month.

We heard from Eric, R3/K3NA. He just got his Russian radio license, which took about 4 months and cost \$150 for a year. He noted that US hams should be happy with ten-year low-cost licenses! Eric's email is [\[email protected\]](#).

The 1997 Canada Day Contest scores are out and N4MM took first place USA 14 MHz single operator.

Eric, W3DQ, messages us from Australia that he was active from South Africa and operated ZS98IARU at the ITU Africa Telecom '98 show from Johannesburg. He has purchased a Force 12 triband Yagi, and hopes to put it up when he returns home in July. He's looking forward to some respectable scores from DC this coming season.

Brian Bayus, N1KC, has volunteered to open the PVRC store in late August and says that he hopes to place orders soon afterwards to take care of pent-up demand. He said he is looking for ideas as to what types of new items people may want, i.e. hats, mugs, pins, or whatever. Brian's email is [\[email protected\]](#), his home phone and fax is 703-264-1180, and he's on packet. Please note that N3OC continues to be the badge man and N3NT QSLs.

The July QST reported that PVRC won the 10M contest but several logs sent electronically were lost. It appears that the ARRL may find additional logs and revise the results so it is important for all to be sure your log is in. How do you know if the League has your log? K7CMZ tipped us off to checking the ARRL web page at www.arrl.org/contests/claimed click on the particular contest under LOGS RECEIVED.

The Maryland-DC QSO party will be held August 8th 1600-0400 UTC (the 9th) and August 9th 1600-2359 UTC. QSO parties are good contests for a new contender to get warmed up on. The exchange is QTH (State or MD county) and category (club, QRP, mobile, Novice/Tech, & standard). Frequencies are 3920, 7230, 14268, 21370, 28380, and 50150 kHz on voice and 3643, 3701, 7035, 7126, 14040, 21115, 28040, and 28115 kHz on CW. Also, VHF and UHF. The scoring is too complex to present here. Sponsored by the Antietam Radio Association, WA3EOP chairman.

Probably you Internet buffs know this but I just discovered that the search engine, AltaVista (www.altavista.digital.com), has a translate option between many world languages. Great for reading contest rules not yet translated into English.

Chas, K3WW, has announced that the joint PVRC and FRC meeting will be September 12th at 1:00 PM at N3AD. FRC recognizes that there is a conflict with a VHF contest but other Saturdays had other conflicts. Directions to N3AD's farm (not his license address) will be in the August Newsletter.

PVRC REUNION ON-THE-AIR SCORES (#1 6/23/98) by Dick Wilder, K3DI, editor

So far, we have the following scores reported.

Please report additional reunion scores to me.

Note that scores for the 5-Million award contests go to N3II and, of course, to the contest sponsor. Additional stations worked but not reported are: K3CKT, K3MM, K4RV, K4GKD, KZ1O, W1CLF, W3HVQ, W3NRS, W6UM, and WB4FDT.

CALL	QSO	MULT	SCORE
K1HTV	213	19	8094
W3UJ	181	19	6878
W3PP	169	19	6422
N8II	131	17	4454
W7RM	120	18	4320
K3DI	117	16	3744
K2YWE	92	16	2944
W3TMZ	88	15	2640
W4YE	87	15	2610
W3KC	86	15	2580
W3GN/M	71	18	2556
K6SG	78	16	2496
N3NT	89	14	2492
W6MVW	82	15	2460
W2RS	66	17	2244
W4ZYT	43	24	2064
K3ZO	67	13	1742
W3CP	62	14	1736
W1ZM	40	19	1520
K2UFT	58	13	1508
AA3LE	55	13	1430
DK5AD	53	13	1378
W4AGI	51	13	1326
W3AU	54	12	1296
K2UOP	46	14	1288
W5KL	53	12	1272
N3AM	50	12	1200
W3FZV	42	14	1092
N6RA	56	9	1008
W0SS	41	12	984
K4LDR	39	10	780
W3UR	27	11	594
W4DM	30	9	540
KE3Q	36	7	504
N3UN	22	10	440
W3KQ	21	8	336
N4RP	15	6	180
AJ3M	11	7	154
W4JVN	8	7	112
K4VT	9	7	126
W3GG	12	2	48
K4ZW	6	4	48

SCORES BY DAVE BLANCHARD, N3II

PVRC CQ WPX SSB (#4 5/8/98)

CALL PWR BAND QSO MULTS SCORE

SINGLE OP - UNASSISTED				
KE3Q	C	3032	863	7,234,529
K3MM	C	2725	841	6,606,055
K3ZO	C	1908	674	4,087,136
W9LT	C	1342	608	2,329,248
N8II	C	1325	576	2,051,712
NY4A	C	480	314	344,144
W3AZ	C	406	246	305,286
K3OSX	C TS	355	236	228,684
N3RC	C TS	325	192	118,848
KS4XG	C	257	169	118,807
W4IF	C	102	93	26,505
N4MM	C	-	-	14,688
N3GPU	C TS	75	60	14,160
K1HTV	B	1515	645	2,684,490
N4MO	B 15	748	436	867,640
K3XZ	B TS	470	294	276,360
N3XQP	B RTS	329	228	169,404
N3UN	B	250	185	120,620
W3CP	B 15	230	192	113,088
W2BZR	B 10	231	149	79,715
W4YE	B TS	160	126	53,602
N3TG	B	165	118	49,324
WB4DNL	B TS	71	63	9,765

* SINGLE OP - ASSISTED

K4VV	C	200	166	87,316
W2GG	B	827	469	1,145,767
WR3L	B 15	380	285	279,300
WA4QDM	B	353	230	254,840
K3DI	B	290	235	212,205

* MULTI-SINGLE

A61AJ	C	3928	868	10,263,000
KT4W	C	2371	809	5,296,523

* MULTI-MILTI

KS3F	C	3660	028	9,299,288
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OPERATORS:

A61AJ: A61AJ K3LP
 KE3Q: KE3Q @ W3LPL
 KT4W: KT4W N4RV @ N4RV
 KS3F: W3PP KE3ZR N3WDL NX3A KS3F
 NY4A: N4CW

A = - - - - - QRP

B = LOW POWER
C = HIGH POWER
TS = TRIBANDER + SINGLE ELEM 160-40
BR = BAND RESTRICTED
R = ROOKIE

GREAT IMPROVEMENT OVER LAST YEAR - DOUBLED OUR SCORE SO FAR.
ANY MORE SCORES?

PVRC CQ WPX CW (#4 6/22/98)

CALL PWR BAND QSO MULTS SCORE

* SINGLE OP - UNASSISTED

KE3Q	C	2373	712	5,102,156
K3ZO	C	1899	665	3,950,100
W3PP	C	1437	590	2,490,390
NY4A	C TS	803	414	982,422
N4CW	C 20	738	436	609,092
W3AZ	C	510	304	531,392
N3II	C TS	375	258	320,952
N1WR	C	349	241	245,338
W4IF	C	225	177	106,200
N4MM	C	123	114	39,216
K1HTV	B	1169	532	1,892,324
W4YE	B TS	661	370	696,340
W3CP	B	371	257	302,232
K7CMZ	B	334	231	227,997
N3TG	B	274	210	165,690
K2UOP	B	271	214	156,220
K4QPL	B	267	215	136,955
K4VV	B	200	166	80,344
W3XG	B	149	125	55,875
WV3B	A TS	185	156	50,856

* SINGLE OP - ASSISTED

K3MM	C	2008	708	4,304,640
KT4W	C	950	442	1,200,000
K3KO	C TS	525	355	508,715
WD3A	B	150	134	42,880

* MULTI-MULTI

NJ4F	C	2863	809	6,158,917
W4MYA	C	2264	729	4,948,452
WR3L	C	1789	677	3,118,262

OPERATORS:

KE3Q: KE3Q @ W3LPL
NJ4F: K1SE K4EC K4EU K4GMH K4ZW K7SV NJ4F WA4JUK & DAISY
NY4A: K2AV @ K2AV
W4MYA: WA4QDM W4HZ KF4SPT W4MYA
WR3L: N3NT W2GG WR3Z K3FT WR3L

- - - - -
TOTAL SSB 54,742,049 31 Logs

TOTAL CW	38,423,957	27	"
GRAND TOTAL	93,166,006	58	"

1997 RESULTS # Logs Total)

1. CONTEST CLUB FINLAND	27	82,194,303
2. SLOVENIA CONTEST C	60	70,105,346
3. FRANKFORD RADIO CLUB	27	58,911,406
4. YU DX CLUB	29	56,852,893
5. ARAUCARIA DX GROUP	5	48,617,698
6. RHEIN RUHR DX ASSN	40	47,300,298
7. YANKEE CLIPPER C C	61	46,338,877
8. POTOMAC VALLEY R C	51	45,365,757